

IN THE CLAIMS:

Claims 1 – 8 (canceled).

Claim 9 (New) A method of manufacturing a linear motor coil assembly for developing linear motion, comprising the steps of:

providing a plurality of cores divided for each magnetic pole;

winding coils around the respective cores;

providing a cooling tube having a plurality of interleaved folds into which said coils are adapted to engage; and

fitting the coils into the folds.

Claim 10 (New) The method of manufacturing a linear motor coil assembly according to claim 9, wherein the step of fitting includes fitting the coils into the folds in the direction in which the coils are wound.

Claim 11 (New) The method of manufacturing a linear motor coil assembly according to claim 9, wherein each coil has an associated coil axis and the cooling tube has a cross section elongated in a direction parallel to the coil axes.

Claim 12 (New) The method of manufacturing a linear motor coil assembly according to claim 9, wherein the cooling tube has interleaved folds at least equal in number to the number of coils.